

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE February 26, 1974

Operator El Paso Natural Gas Company		Lease Mudge #7 (OWWO)	
Location 798/S 980 /W, Sec. 23, T31N, R11W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 4945'	Tubing: Diameter 2.375	Set At: Feet 4893'
Pay Zone: From 4602	To 4904	Total Depth: 4945	Shut In 2-19-74
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Meter Choke Size, Inches Orifice 4" MR 2.50		Orifice Choke Constant: C 32.64		Well tested thru 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 774	+ 12 = PSIA 786	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 415	+ 12 = PSIA 427	
Flowing Pressure: P PSIG 137	+ 12 = PSIA 149		Working Pressure: Pw PSIG 612	+ 12 = PSIA 624	
Temperature: T = 75 °F	n = Ft = .9859		Fpv (From Tables) 1.012	Gravity .650	Fg = 1.240

$$\text{CHOKE VOLUME} = Q = C \times P_t \times F_t \times F_g \times F_{pv}$$

$$Q = \text{Calculated from meter readings} = \underline{\quad 1968 \quad} \text{ MCF/D}$$

$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = Q \left(\frac{617796}{228420} \right)^n = 1968 (2.7046)^{.75} = 1968 (2.1090)$$

$$Aof = \underline{\quad 4151 \quad} \text{ MCF/D}$$

Note: The well produced 1.40 bbls of oil at 46.6 API and 20.30 bbls of water during test.

TESTED BY Johnson & HardieWITNESSED BY Fothergill

Loren W. Fothergill
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Well Test Engineer

